Model Inter-comparison Using the LAS Interactive Earth Science Data Visualization Gallery (vizGal)

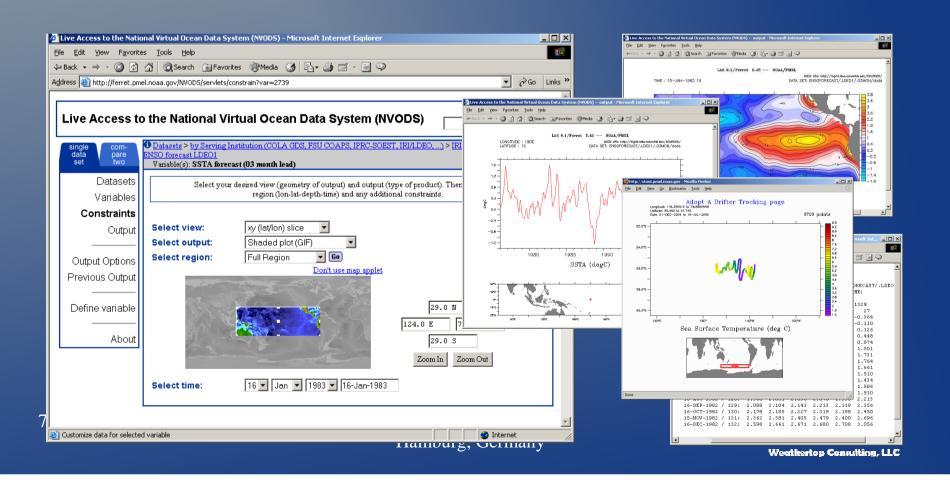
Roland Schweitzer, Weathertop Consulting,

Steve Hankin, PMEL Kevin O'Brien, UW/JISAO Jeremy Malczyk, UW/JISAO Ansley, Manke, PMEL



The Live Access Server (LAS)

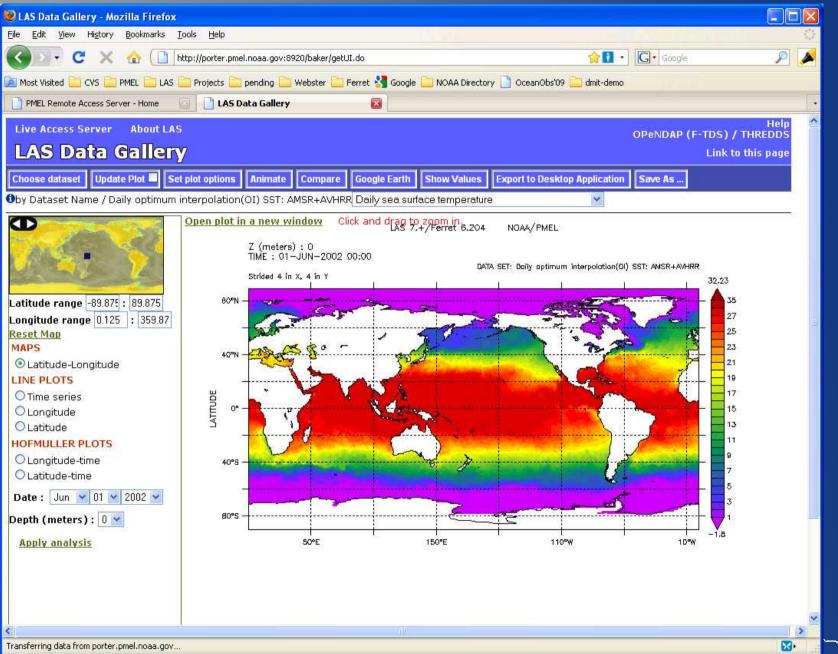
A highly configurable Web server designed to provide flexible access to geo-referenced scientific data

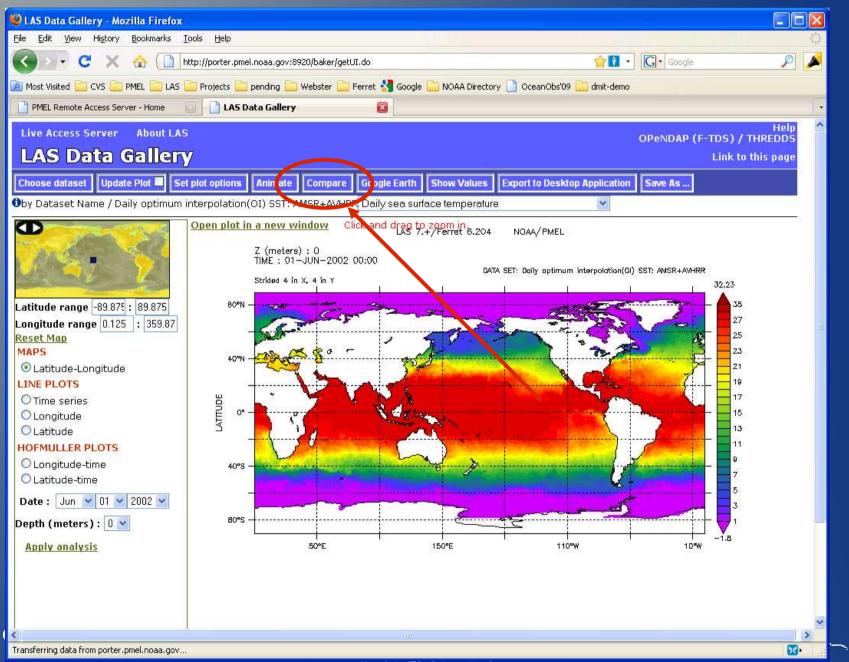


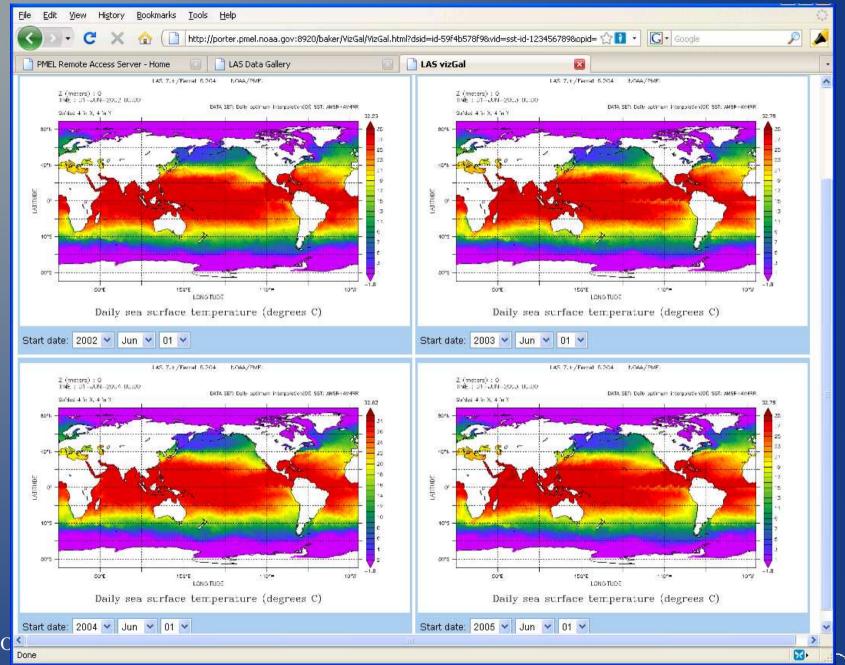
vizGal is just another LAS product

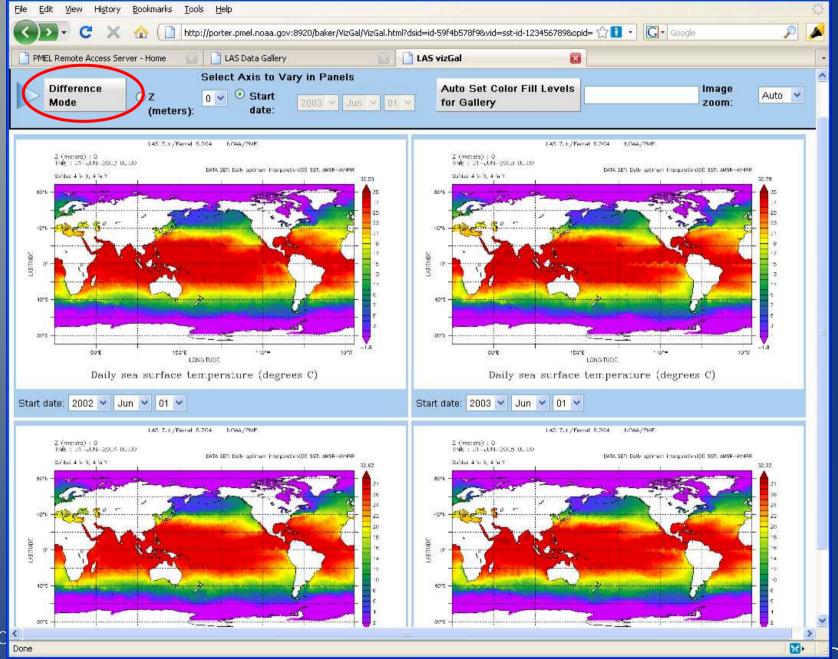
- Interactive
- Contains many "sub-products"
- Contains some similar UI controls for data selection, time and region selection and control over the product options

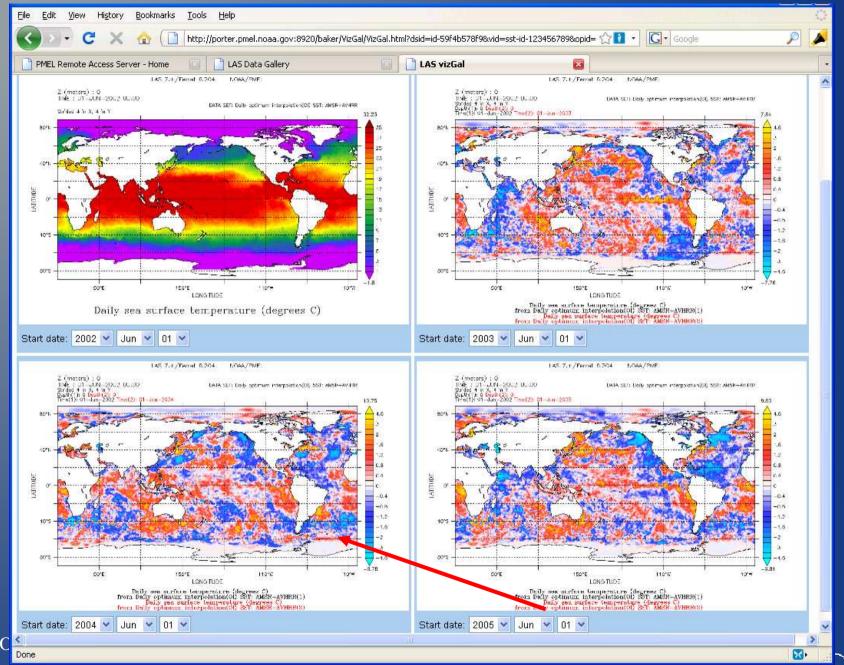


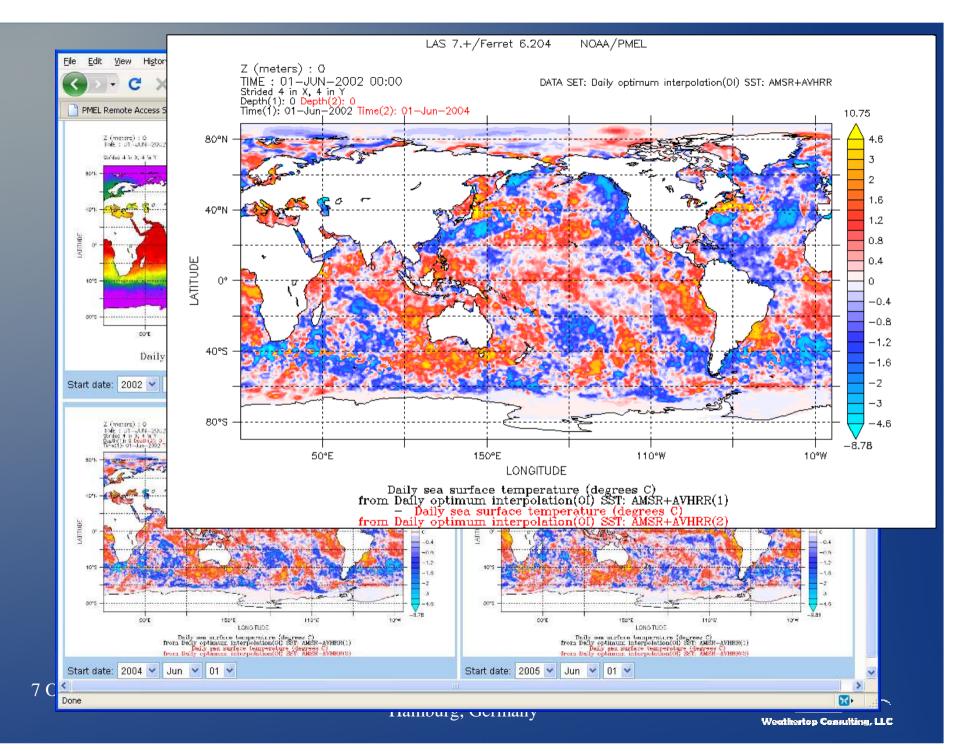


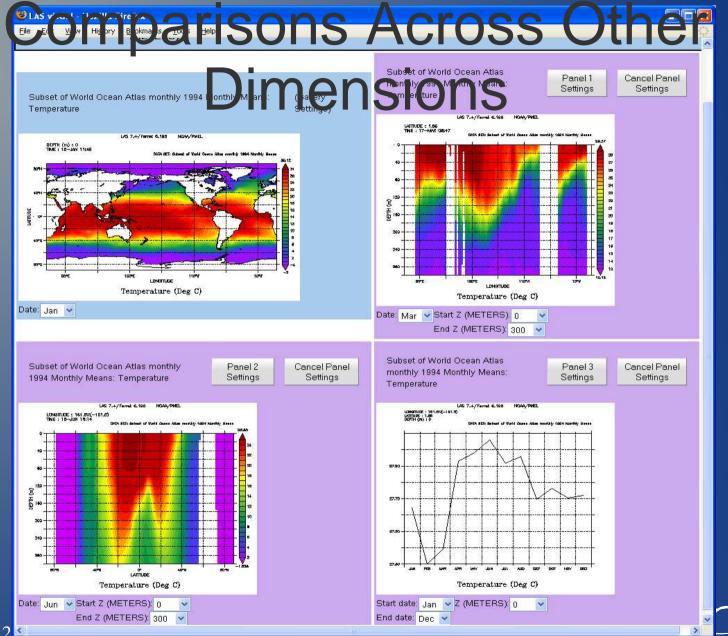


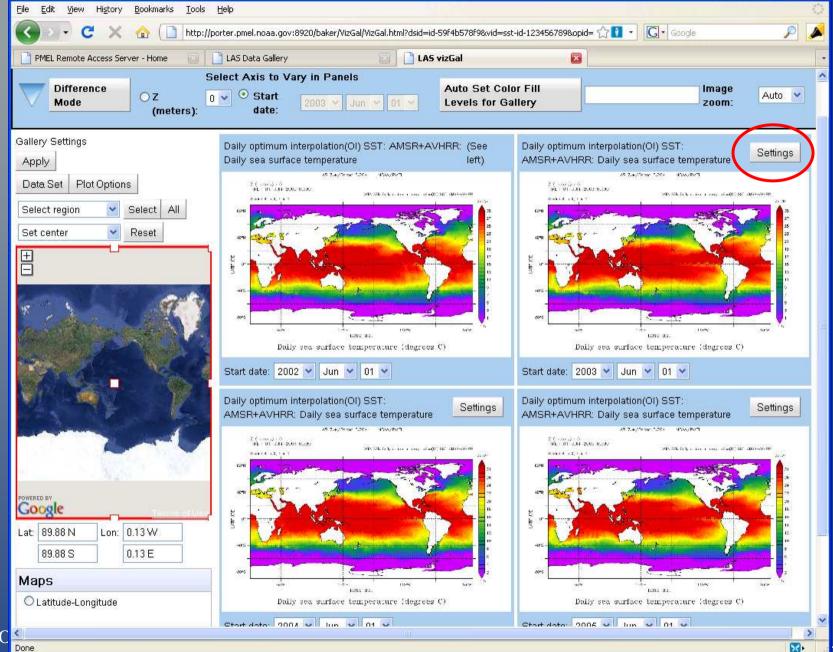


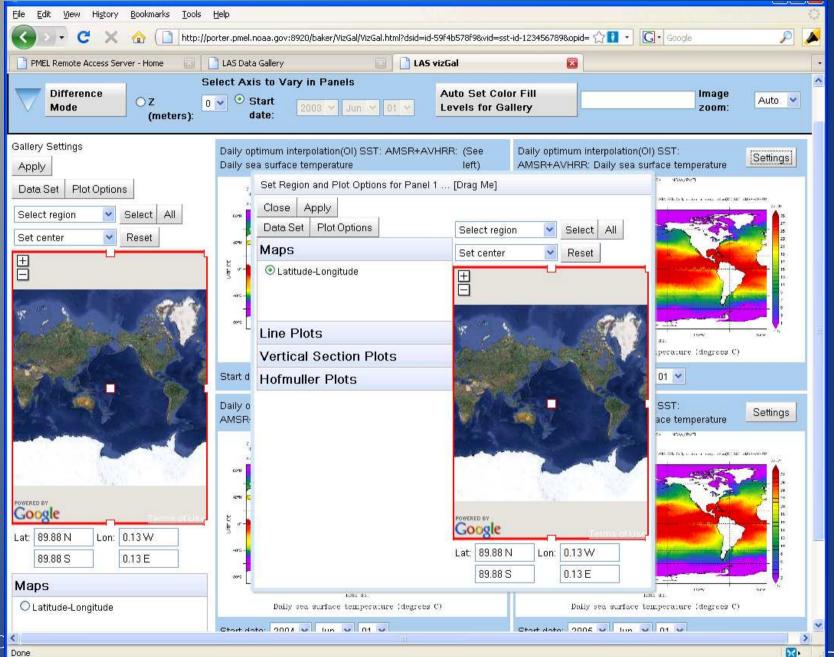


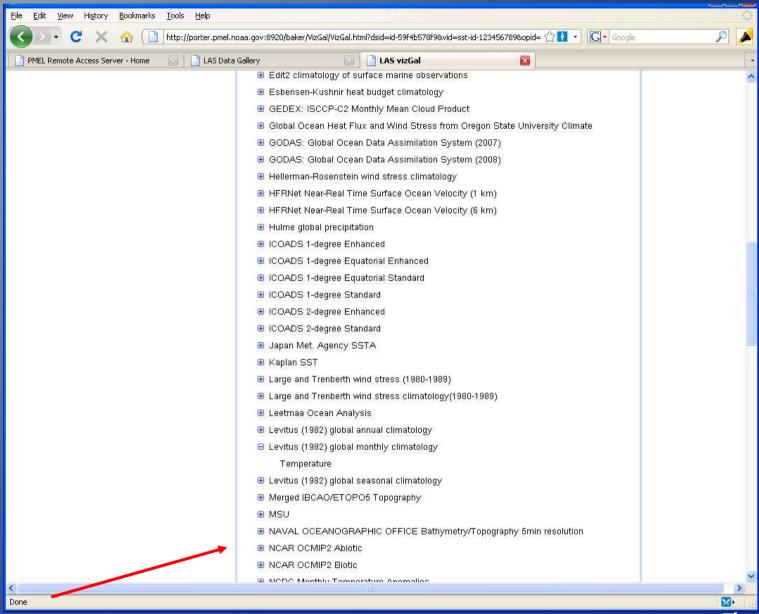




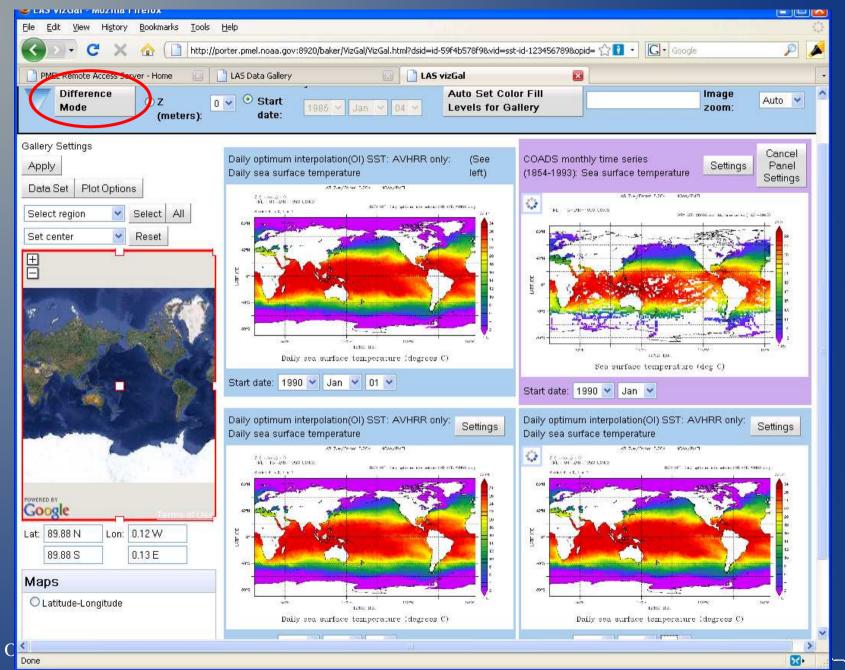


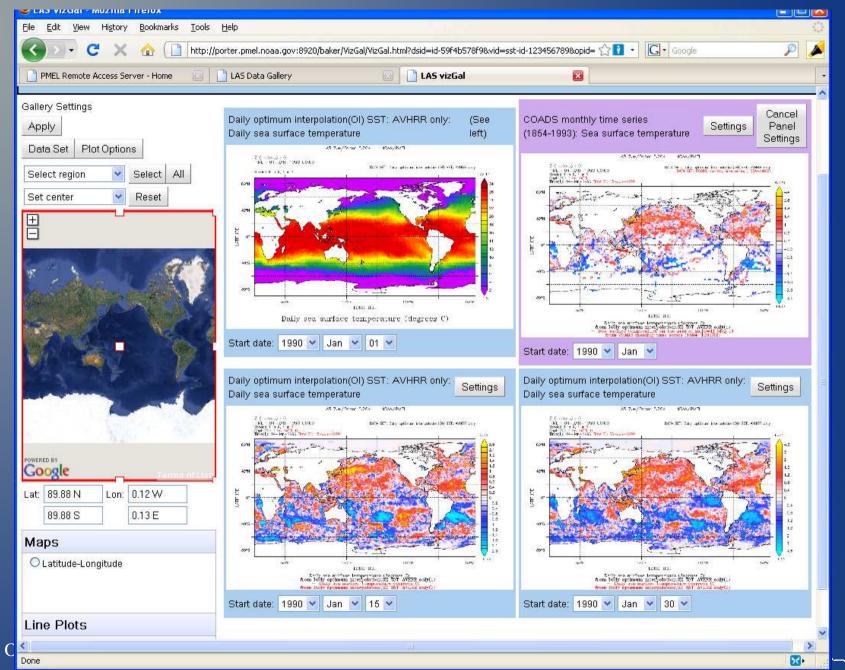


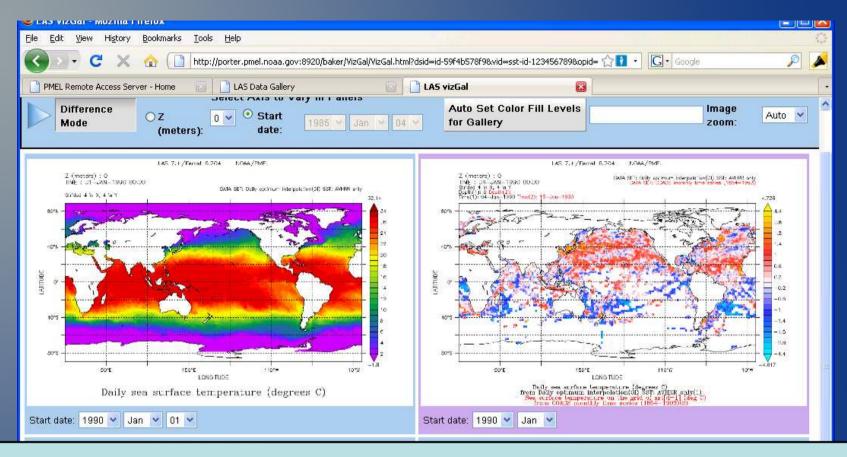












Note: Differencing between datasets may require regridding. LAS tells the (F-TDS) OPeNDAP server to provide regridded data.



Implemented using GWT

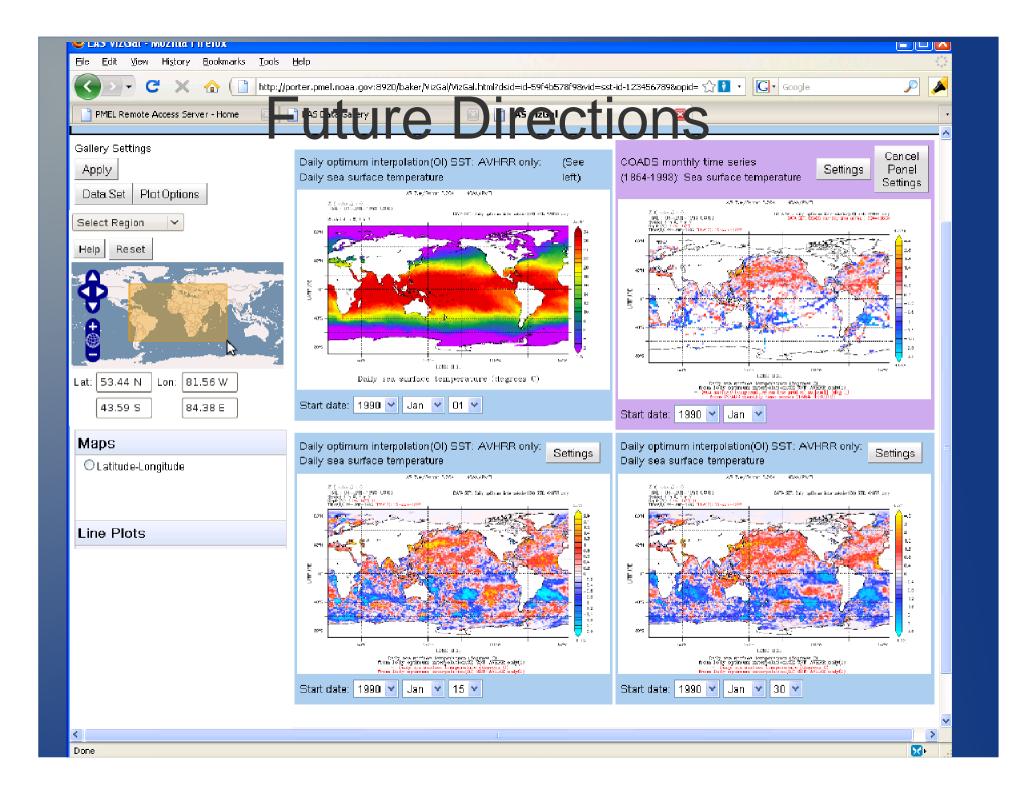
- Google Web Toolkit (GWT)
- Code in Java using Eclipse IDE
- Debug in Eclipse with standard tools
- Easy Ajax communication using GWT RPC
- Reuse code on the client and the server
- GWT handles the browser quirks and incompatibility by cross-compiling 6 versions of JavaScript



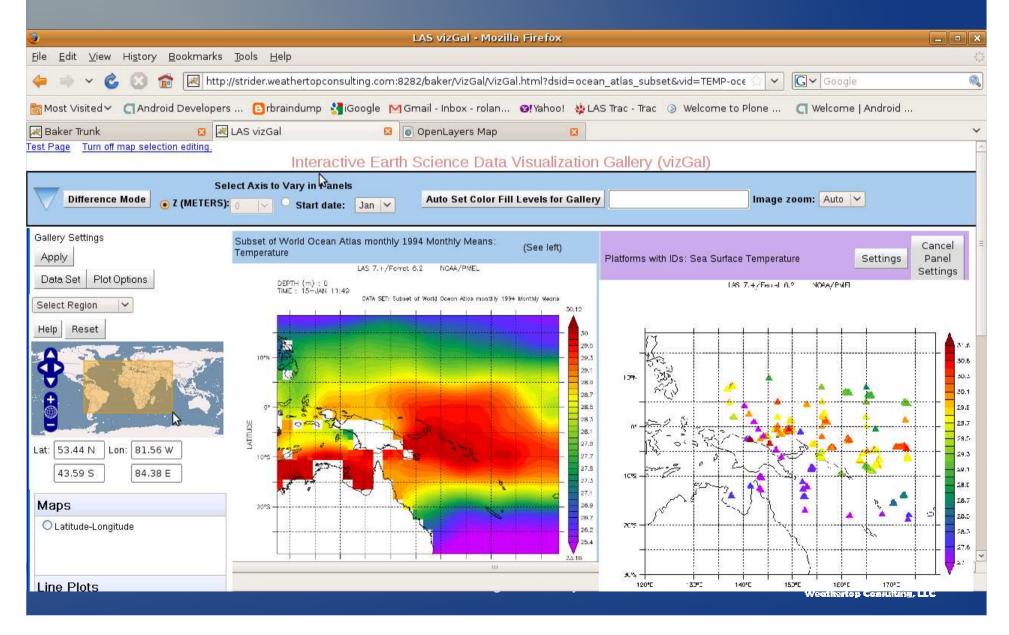
Implementation Details

- vizGal implements the GWT history mechanism so that the browser back and forward buttons do what you expect (mostly)
- Google Map Widget for region selection
- Map will be replaced by an OpenLayers implementation using GWT-OpenLayers (http://gwt-openlayers.sourceforge.net)





Future Directions



Other Ideas

- During yesterday's demos two people offered suggestions:
- Better interface for ensemble data
- Ability to send an OPeNDAP link or down load the data that has been re-gridded and differenced



Final Comments

- vizGal will be in the next release of LAS
- Will be part of the LAS UI that is deployed with ESG

Questions?

